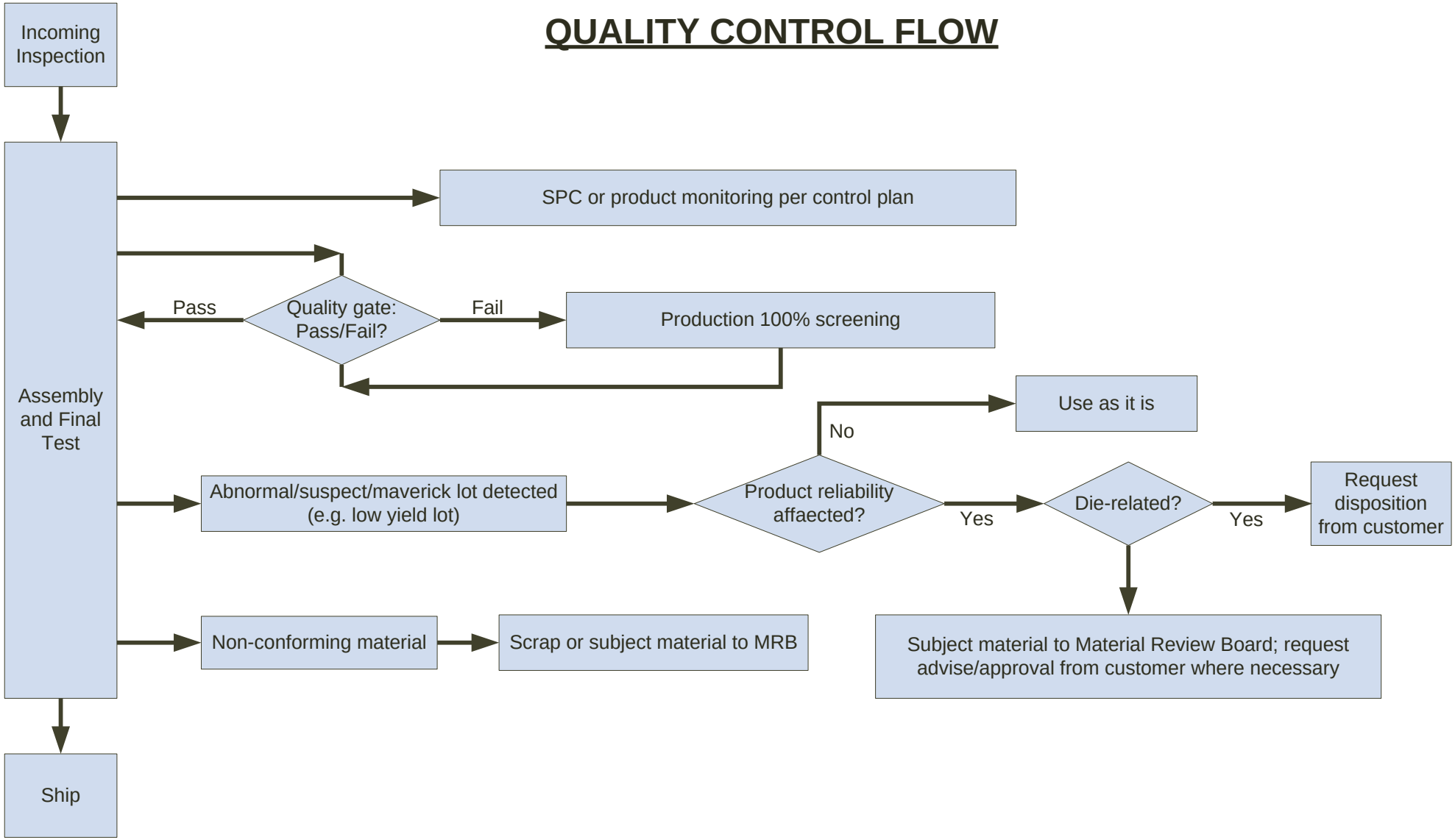QUALITY CONTROL FLOW